

AMENDMENTS TO THE CLAIMS

1. (Original) A fusion protein of pyrroloquinoline quinone glucose dehydrogenase (PQQGDH) and a cytochrome.
- 2 (Original) The fusion protein according to Claim 1, wherein the PQQGDH is a water-soluble PQQGDH derived from *Acinetobacter calcoaceticus*.
3. (Original) The fusion protein according to Claim 1 or 2, wherein the cytochrome has been fused to the C-terminal side of PQQGDH.
4. (Currently Amended) The fusion protein according to ~~any one of Claims 1 to 3~~ Claim 1, wherein the cytochrome is cytochrome c or cytochrome B562.
5. (Currently Amended) The fusion protein according to ~~any one of Claims 1 to 4~~ Claim 1, wherein the cytochrome is derived from a quinohemoprotein which is a protein having both PQQ and a heme in one molecule.
6. (Currently Amended) The fusion protein according to ~~any one of Claims 1 to 5~~ Claim 1, wherein the cytochrome is derived from a quinohemoprotein alcohol dehydrogenase.

7. (Currently Amended) The fusion protein according to ~~any one of Claims 1 to 6~~ Claim 1, wherein the cytochrome is derived from quinohemoprotein ethanol dehydrogenase from *Comamonas testosteroni*.

8. (Currently Amended) The fusion protein according to ~~any one of Claims 1 to 7~~ Claim 1, which is either (a) or (b):

(a) a protein comprising an amino acid sequence represented by SEQ ID NO: 2;

(b) a protein comprising an amino acid sequence in which one or more amino acid residues have been deleted, substituted or added in the amino acid sequence (a) and having a glucose dehydrogenase activity and an electron transfer ability.

9. (Currently Amended) A gene encoding the fusion protein according to ~~any one of Claims 1 to 8~~ Claim 1.

10. (Original) A vector containing the gene according to Claim 9.

11. (Original) A transformant containing the gene according to Claim 9.

12. (Original) A transformant in which the gene according to Claim 9 has been integrated into its main chromosome.

13. (Currently Amended) An enzyme electrode comprising the fusion protein according to ~~any one of Claims 1 to 8~~ Claim 1 attached thereto.

14. (Original) A method of measuring the glucose concentration in a sample comprising the steps of:

contacting the sample with the enzyme electrode according to Claim 13; and
measuring electrons generated from the oxidation of glucose.

15. (Original) A glucose sensor comprising an enzyme electrode according to Claim 13 as a working electrode.